



OmniCarb™
PC/ABS 1412 CTI

Cold Temperature Impact Resistant PC/ABS

PHYSICAL	Units	ASTM/ISO Procedure	English	Metric
Melt Flow	g/10 min.	D1238	12	12
Specific Gravity		D792	1.14	1.14
IMPACT				
Izod Impact Resistance				
Notched 1/8" bar, 73 °F	ft.-lbs/in. (J/m)	D256	14	747
Notched 1/8" bar, -22 °F	ft.-lbs/in. (J/m)	D256	10	534
MECHANICAL				
Tensile Strength				
At Yield, 73 °F	psi (MPa)	D638	7,800	54
Tensile Elongation	%	D638	130	130
Flexural Modulus	psi (MPa)	D790	330,000	2,275
Flexural Strength	psi (MPa)	D790	12,500	86
THERMAL				
Deflection Temperature				
1/8" bar, 66 psi	°F (°C)	D648	-	-
1/8" bar, 264 psi	°F (°C)	D648	240	115
FLAMMABILITY				
Flame Resistance	.125"	UL94	HB*	HB*
*Omni Internal Testing				
RECOMMENDED PROCESSING CONDITIONS				
Drying Temperature			220 °F	
Drying Time			3-4 hrs. max.	
Maximum Moisture			0.02%	
Rear Zone(s)			480 to 550 °F	
Middle Zone(s)			490 to 570 °F	
Front Zone(s)			500 to 560 °F	
Nozzle			480 to 560 °F	
Mold Temperature			100 to 200 °F	
Melt Temperature			500 to 575 °F	
Back Pressure			50 to 100 psi	

Values are based on natural or black materials unless otherwise noted. Properties and values herein are based on laboratory test specimens and should not be used to establish minimum specification limits or fabricate tooling.

Omni does not guarantee the accuracy of this information or the suitability of this product in any given application or usage situation.